

Land Classification Interpretations

Prime and Important Farmland

Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these uses (the land could be cropland, pastureland, forest land, or other land, but not urban built-up land or water). It has the soil quality, growing season, and moisture supply needed to economically produce sustained high yields of crops when treated and managed, including water management, according to acceptable farming methods.

In general, prime farmlands have an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, acceptable salt content, and few or no rocks. They are permeable to water and air. Prime farmlands are not excessively erodible or saturated with water for a long period of time, and they either do not flood frequently or are protected from flooding.

This section includes lists of soil survey map units that meet the soil requirements for prime farmland in the county and state. Soils that have limitations, such as a high water table or flooding, may qualify as prime farmland if these limitations are overcome by such measures as drainage or flood control. State important soils are also noted.

This subsection includes:

- **(a) County Prime Farmland List**
- **(b) Missouri's Soil Survey Mapping Units Denoting Prime Farmland and Farmland of Statewide Importance**

Buchanan County, Missouri
Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name.)

Map symbol	Soil name
1B	MARSHALL SILT LOAM, 2 TO 5 PERCENT SLOPES
1B2	MARSHALL SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
7B2	SHARPSBURG SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
11B	SIBLEY SILT LOAM, 1 TO 5 PERCENT SLOPES
21B	JUDSON-COLO COMPLEX, 1 TO 5 PERCENT SLOPES (Prime farmland if drained)
22A	WIOTA SILT LOAM, 1 TO 3 PERCENT SLOPES, RARELY FLOODED
52	KENNEBEC SILT LOAM, RARELY FLOODED
53B	JUDSON SILT LOAM, 1 TO 4 PERCENT SLOPES
55	COLO SILTY CLAY LOAM, OCCASIONALLY FLOODED (Prime farmland if drained)
56	ZOOK SILTY CLAY LOAM, FREQUENTLY FLOODED (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
57	WABASH SILTY CLAY, FREQUENTLY FLOODED (Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season)
58	WALDRON SILTY CLAY LOAM, RARELY FLOODED
60	COLO SILT LOAM, OVERWASH, OCCASIONALLY FLOODED (Prime farmland if drained)
61	NODAWAY SILT LOAM, FREQUENTLY FLOODED (Prime farmland if protected from flooding or not frequently flooded during the growing season)
66	HAYNIE SILT LOAM, RARELY FLOODED
70	MODALE SILT LOAM, RARELY FLOODED
74	PERCIVAL SILTY CLAY, RARELY FLOODED
77	DOCKERY SILTY CLAY LOAM, OCCASIONALLY FLOODED
79	ONAWA SILTY CLAY, RARELY FLOODED
81	ALBATON SILTY CLAY, RARELY FLOODED (Prime farmland if drained)
83	LEVASY SILTY CLAY LOAM, RARELY FLOODED (Prime farmland if drained)
93	GRABLE VERY FINE SANDY LOAM, RARELY FLOODED
101	KENMOOR LOAMY FINE SAND, RARELY FLOODED
102	HAYNIE-ONAWA COMPLEX, RARELY FLOODED